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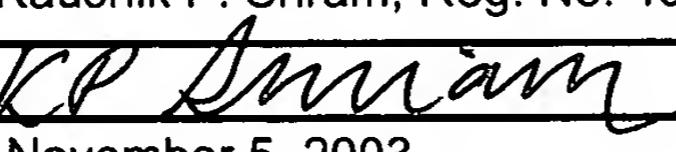
(to be used for all correspondence after initial filing)

		Application Number	10/629,268
		Filing Date	July 29, 2003
		First Named Inventor	Paul G. Cairns et al.
		Art Unit	N/A; Confirmation No.: 6684
		Examiner Name	N/A
Total Number of Pages in This Submission	3	Attorney Docket Number	414-29494-US

ENCLOSURES (Check all that apply)

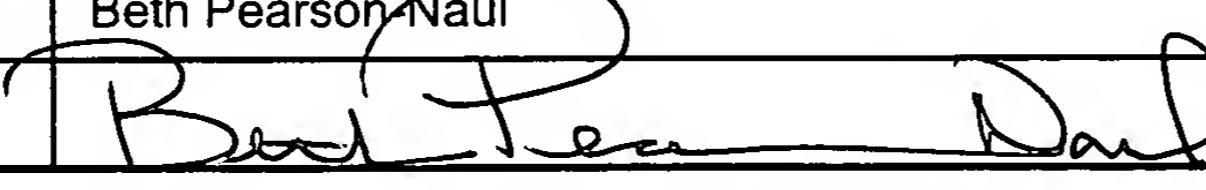
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> After Allowance communication to Group
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Firm or Individual name	Kaushik P. Sriram, Reg. No. 43,150
Signature	
Date	November 5, 2003

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Paul G. Cairns et al.

Group Art Unit: N/A

SERIAL NO.: 10/629,268

Examiner: N/A

FILED: July 29, 2003

Confirmation No.: 6684

TITLE: "Measurement-While-Drilling
Assembly Using Real-Time
Toolface Oriented Measurements"

Atty Docket No.: 414-29494-US

MS: DD
Commissioner for Patents
P. O. Box 1450
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INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the references listed on the attached Form PTO-1449 be considered by the Examiner and made of record.

This Information Disclosure Statement is not to be considered as a representation that a search has been made or that no other material information as defined under 37 C.F.R. § 1.56(a) exists. The information disclosure statement submitted herewith is being filed before the mailing date of the first office action for this application.

The Commissioner is hereby authorized to charge any additional fees or credit any overpayment to Deposit Account No. 02-0429 (414-29494-US).

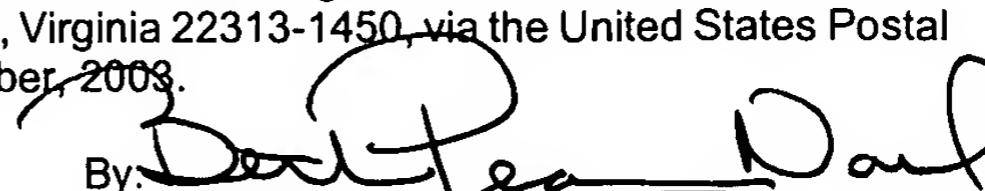
Respectfully submitted,

Dated: November 5, 2003


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By: 
Beth Pearson-Naul



		ATTY. DOCKET NO. 414-29494-US	SERIAL NO. 10/629,268
INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		APPLICANT Paul G. Cairns et al.	
		FILING DATE July 29, 2003	GROUP / CONFIRMATION N/A / 6684

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,091,644	02/25/92	Minette	250	254	01/15/91
	AB	5,325,714	07/05/94	Lende et al.	73	153	05/12/93
	AC	6,215,120B1	04/10/01	Gadeken et al.	250	256	03/25/99
	AD	6,307,199B1	10/23/01	Edwards et al.	250	269.3	05/12/99
	AE	6,347,282B2	02/12/02	Estes et al.	702	6	12/03/98
	AF						
	AG						

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBL. DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	AH					
	AI					
	AJ					

OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages of Publication, Etc.)

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EXAMINER	DATE CONSIDERED
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